

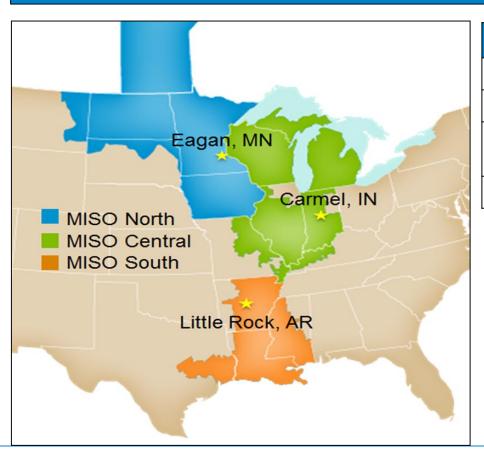
# 2019 Illinois Summer Preparedness Policy Session

June 26th, 2019

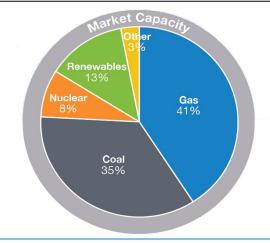
Bob Kuzman Director, State Regulatory Affairs

## MISO drives value creation through efficient and reliable markets, operations, planning, and innovation

#### The most reliable, value-creating RTO

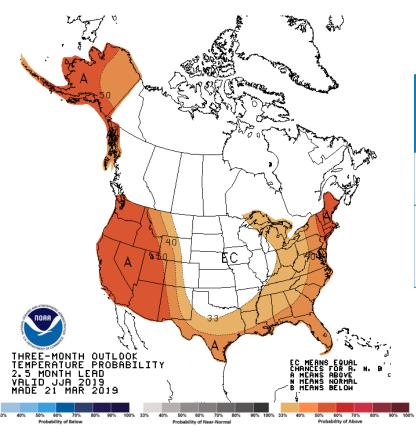


MISO by-the-numbers					
High Voltage Transmission	65,800 miles				
Generation Capacity	174,678 MW				
Peak Summer System Demand	127,125 MW				
Customers Served	42 Million				





### 149 GW of resources available to cover demand and outages for Summer 2019



MISO Preliminary 2019 Summer Forecast					
Summer Peak Forecast	125 GW				
Total Projected Available Capacity*	149 GW				

All-time Summer Peak: 127 GW on July 20th, 2011

NOAA forecasts warmer than normal temperatures for the MISO South region and parts of the Eastern footprint



## MISO projects adequate reserves to meet 2019 expected summer peak demand forecast

 However, summer scenarios with high resource outages and high demand could have some challenges

	Demand Forecast (GW)	Reserve Margin Requirement (GW)	Supply (GW)	Reserves (GW)	Minimum Reserve Requirement	Beyond Requirement
2017/18 PY	125.0	144.8	148.5	23.5 (18.8%)	15.8%	3.0%
2018/19 PY	124.7	146.0	148.6	23.8 (19.1%)	17.1%	2.0%
2019/20 PY	124.7	145.9	148.8	24.1 (19.3%)	16.8%	2.5%



## Range of projections include the uncertainty of a number of parameters and incorporate lessons learned from past years

#### Generation

- Probable Generation Capacity
  - Removes an average volume of resource outages (planned, maintenance, and forced)
- Low Generation Capacity (High Outage)
  - Removes a higher than normal volume of resource outages (planned, maintenance, and forced), typically because of non-normal weather conditions

#### Load

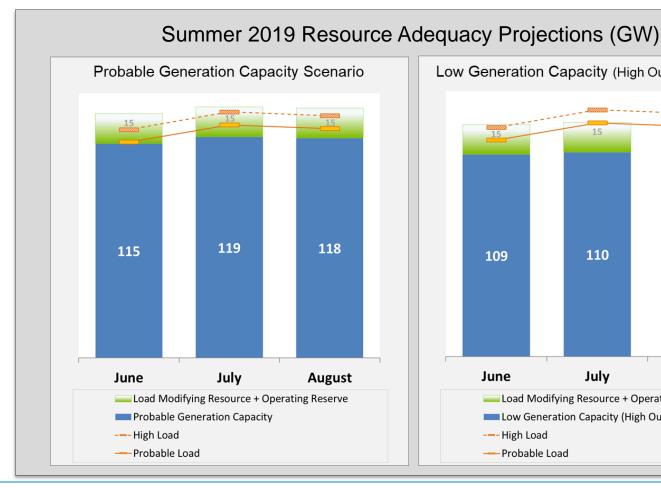
- Probable Load Forecast
  - 50/50 forecast, provided by Market Participants
- High Load Forecast
  - 90/10 forecast<sup>3</sup>

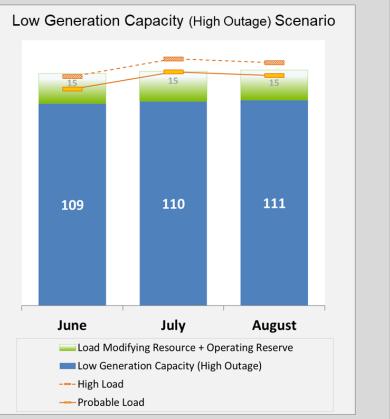




#### Adequate reserves are projected to meet expected summer peak demand forecast

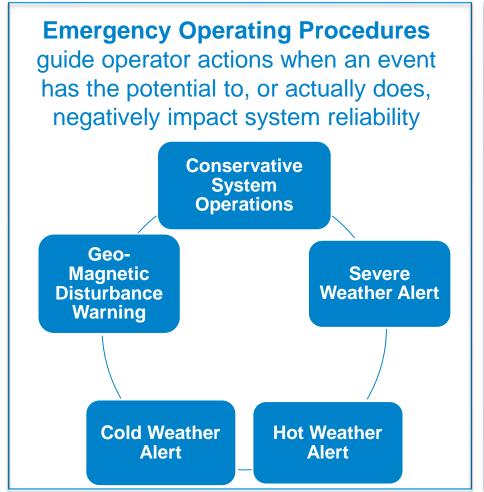
Summer scenarios with high generation outages and high demand could drive operational challenges

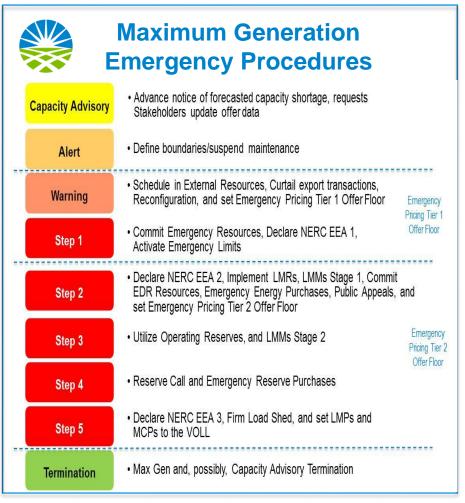






MISO partners with members, drills on emergency procedures, and builds on past lessons learned to ensure operational readiness for summer.







Stakeholder awareness of emergency procedures and communication processes improves transparency and sets expectations, ensuring the integrity of the electric grid

## MISO initiates several types of communications ahead of, or during abnormal operating conditions

- 1. Capacity Emergencies requiring firm load curtailments
- 2. Transmission System Emergencies or Forced Transmission Outages requiring firm load curtailments
- 3. Severe risk of terrorist attack, man-made or natural disasters with potential to cause loss of firm load



#### **Contact Info**

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## Questions?

## Appendix

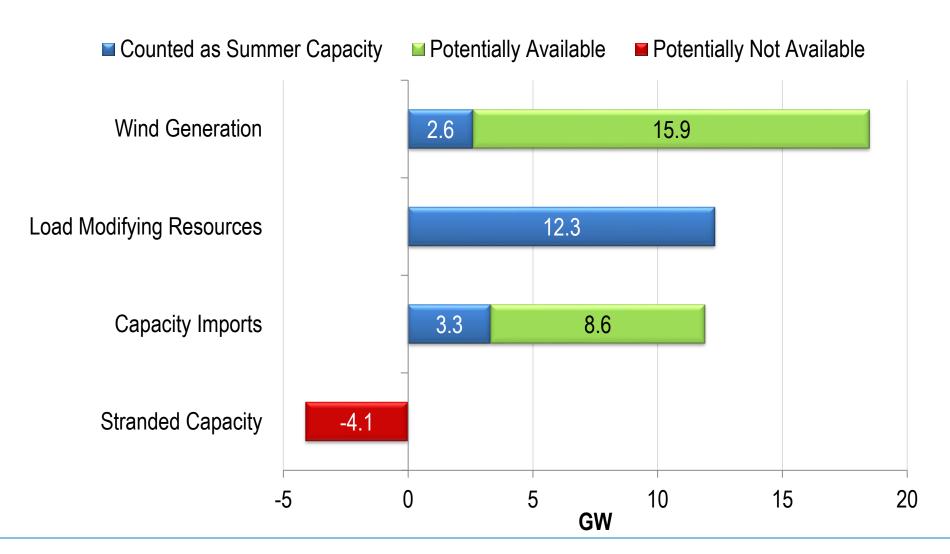


#### MISO is well prepared to handle operational challenges this summer

- MISO projects adequate reserve to meet 2019 summer peak forecasted demand of 125 GW
- No identified issues with the transmission system
- MISO engages with its state officials and stakeholders to maximize preparation during emergency conditions
- MISO partners with members and neighbors to ensure operational readiness for summer

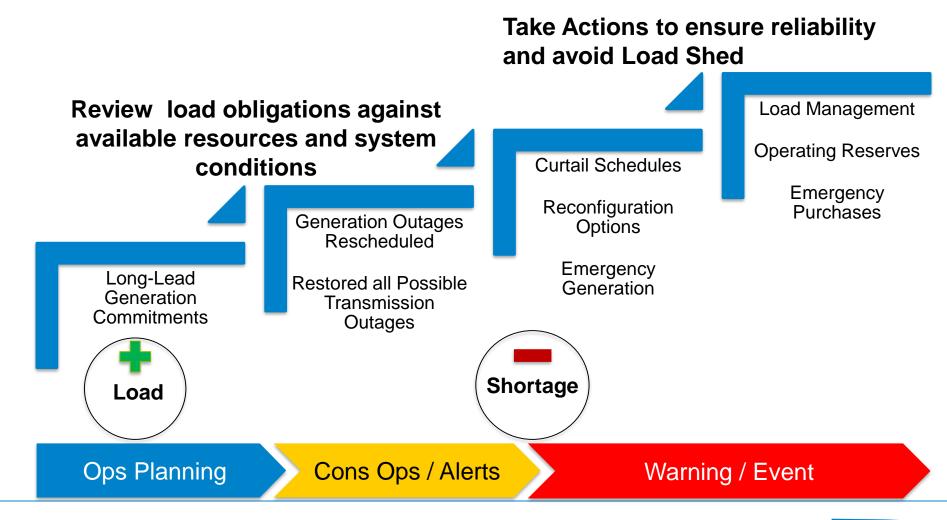


## The need for emergency procedures will be impacted by the availability of resources





#### MISO prepares for extreme conditions in advance. In Real-Time, unplanned outages and other unknowns may require additional actions





#### MISO is prepared for emergency situations



